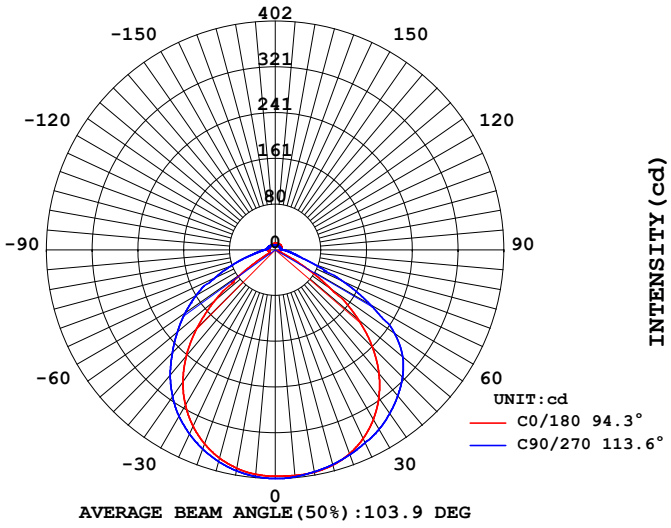
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

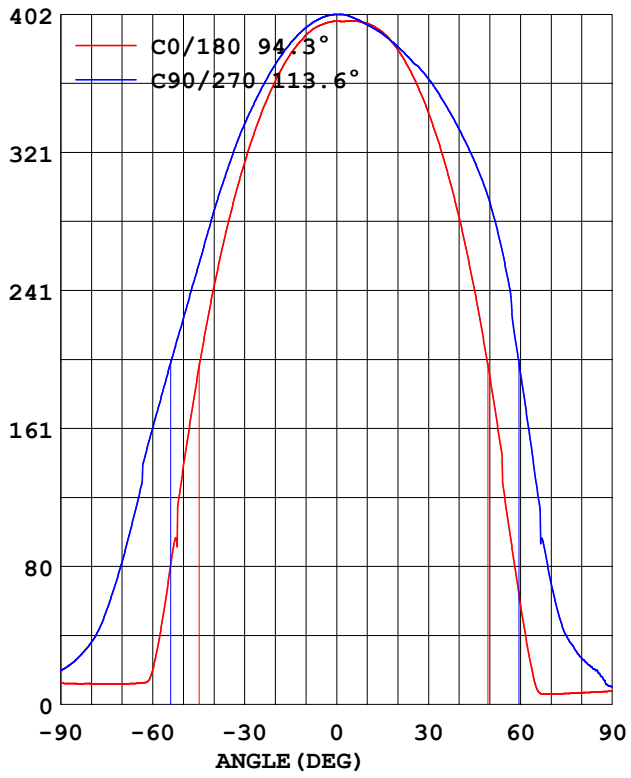
DATA OF LAMP		Imax(cd)	401.8	S/MH(C0/180)	1.18
MODEL	24V-480D-2700K	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.25
NOMINAL POWER(W)	14	TOTAL FLUX(lm)	1034.6	Voltage(V)	23.90
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	78.5	Current(A)	0.551
NOMINAL FLUX(lm)	1034.6	η up(%)	7.0	Power(W)	13.18
LAMPS QUANTITY	1	η down(%)	93.0	Power Factor(PF)	1.000
TEST VOLTAGE(V)	23.9	Effictive Flux(lm)	929.0	EEI	0.182

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):103.9 DEG

LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

Color Temperature Data List

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

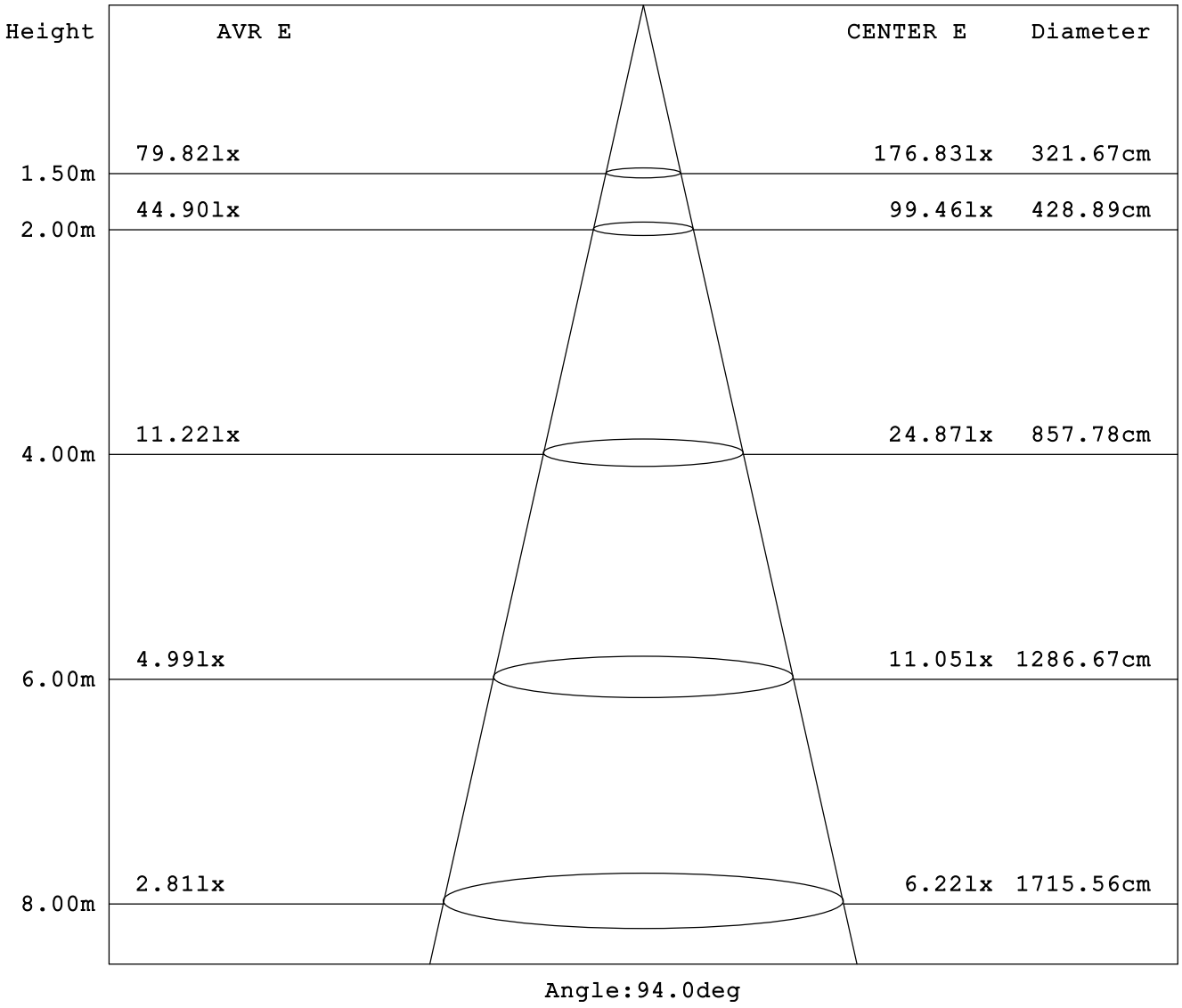
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Angle:94.0deg

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

γ	C0	C90	C180	C270					γ	zone	total
5.0	395.7	399.7	397.8	400.2					0- 5	9.164	9.164
10.0	390.0	394.2	396.6	395.9					5- 10	27.23	36.40
15.0	379.4	385.6	391.8	390.8					10- 15	44.52	80.92
20.0	364.4	373.6	382.1	383.6					15- 20	60.43	141.3
25.0	344.2	358.4	367.5	374.8					20- 25	74.35	215.7
30.0	318.8	340.4	347.5	365.7					25- 30	85.76	301.4
35.0	287.8	318.3	321.8	352.8					30- 35	94.07	395.5
40.0	249.7	291.9	289.4	337.7					35- 40	98.45	494.0
45.0	204.1	261.2	249.6	320.0					40- 45	98.43	592.4
50.0	150.0	230.6	201.7	298.2					45- 50	93.49	685.9
55.0	83.95	200.3	146.6	265.4					50- 55	82.78	768.7
60.0	29.37	168.7	72.99	207.4					55- 60	65.00	833.7
65.0	12.49	127.2	20.81	148.3					60- 65	46.14	879.8
70.0	12.05	92.10	6.045	83.62					65- 70	30.01	909.8
75.0	11.97	62.65	6.289	46.46					70- 75	20.08	929.9
80.0	12.05	40.65	6.695	30.59					75- 80	13.90	943.8
85.0	12.09	29.09	7.100	22.07					80- 85	10.48	954.3
90.0	12.29	21.62	7.587	11.68					85- 90	8.317	962.6
95.0	12.41	17.65	8.277	9.900					90- 95	6.725	969.4
100.0	12.45	15.21	8.805	9.779					95-100	6.305	975.7
105.0	12.45	14.28	9.332	9.616					100-105	6.078	981.7
110.0	12.37	13.06	9.779	9.413					105-110	5.803	987.5
115.0	12.25	13.22	10.22	9.210					110-115	5.662	993.2
120.0	12.05	12.90	10.67	9.089					115-120	5.448	998.7
125.0	11.92	12.61	11.03	8.967					120-125	5.181	1004
130.0	11.80	12.13	11.36	8.845					125-130	4.884	1009
135.0	11.76	11.56	11.76	8.764					130-135	4.533	1013
140.0	11.72	11.11	11.72	8.683					135-140	4.149	1017
145.0	11.64	10.67	11.64	8.602					140-145	3.731	1021
150.0	11.60	10.10	11.60	8.521					145-150	3.292	1024
155.0	11.60	9.738	11.60	8.480					150-155	2.842	1027
160.0	11.56	9.697	11.56	8.399					155-160	2.399	1030
165.0	11.52	8.358	11.52	8.358					160-165	1.904	1032
170.0	11.48	8.318	11.48	8.318					165-170	1.456	1033
175.0	11.48	8.277	11.48	8.277					170-175	1.009	1034
180.0	11.44	8.237	11.44	8.237					175-180	0.559	1035
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

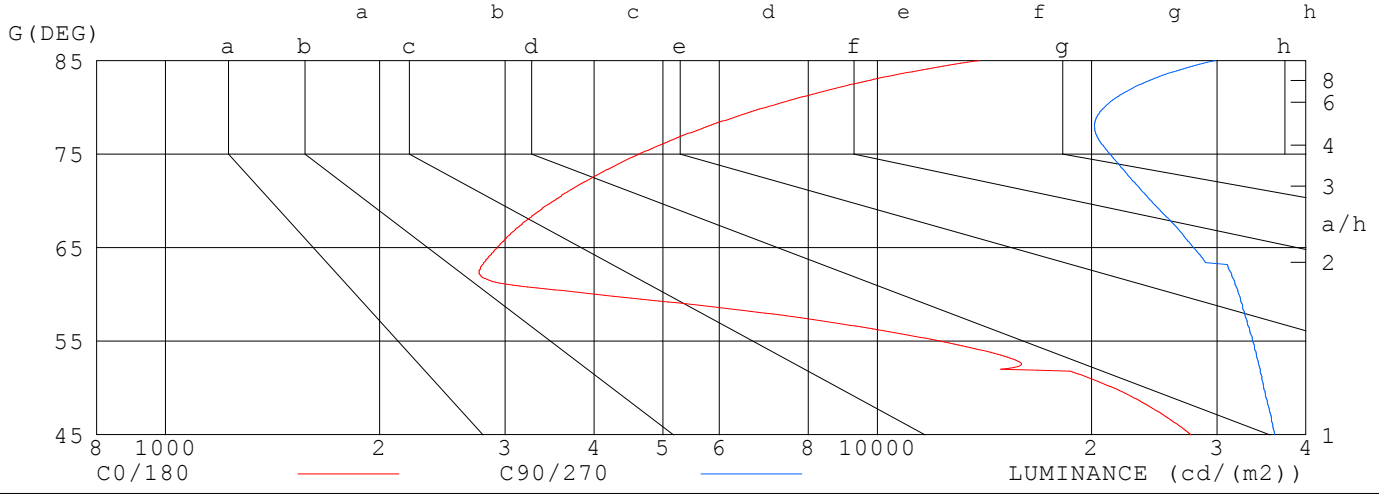
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/m2		
G(DEG)	C0/180	C90/270
85	13920	30076
80	6963	20984
75	4625	21431
70	3512	24428
65	2928	27997
60	4147	32372
55	12465	33801
50	21671	34985
45	27722	36238

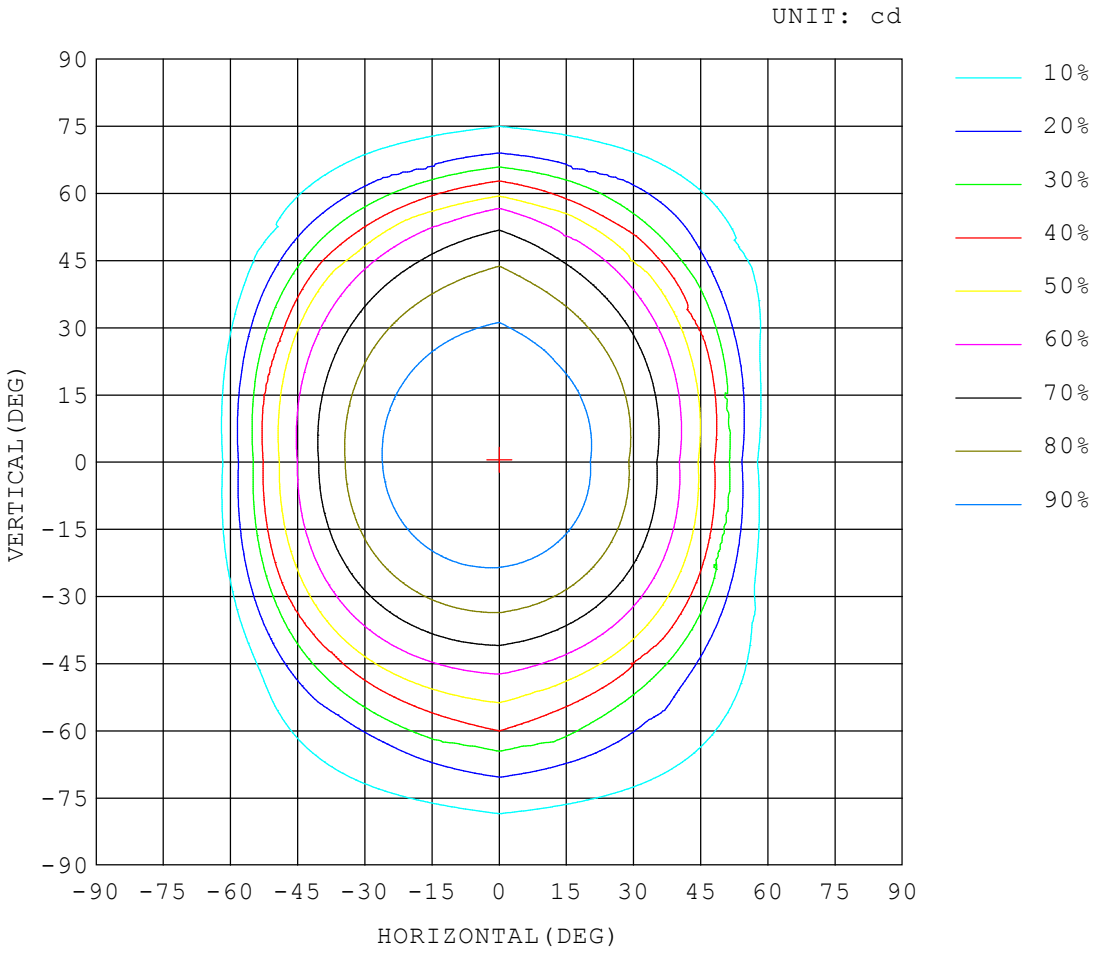
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



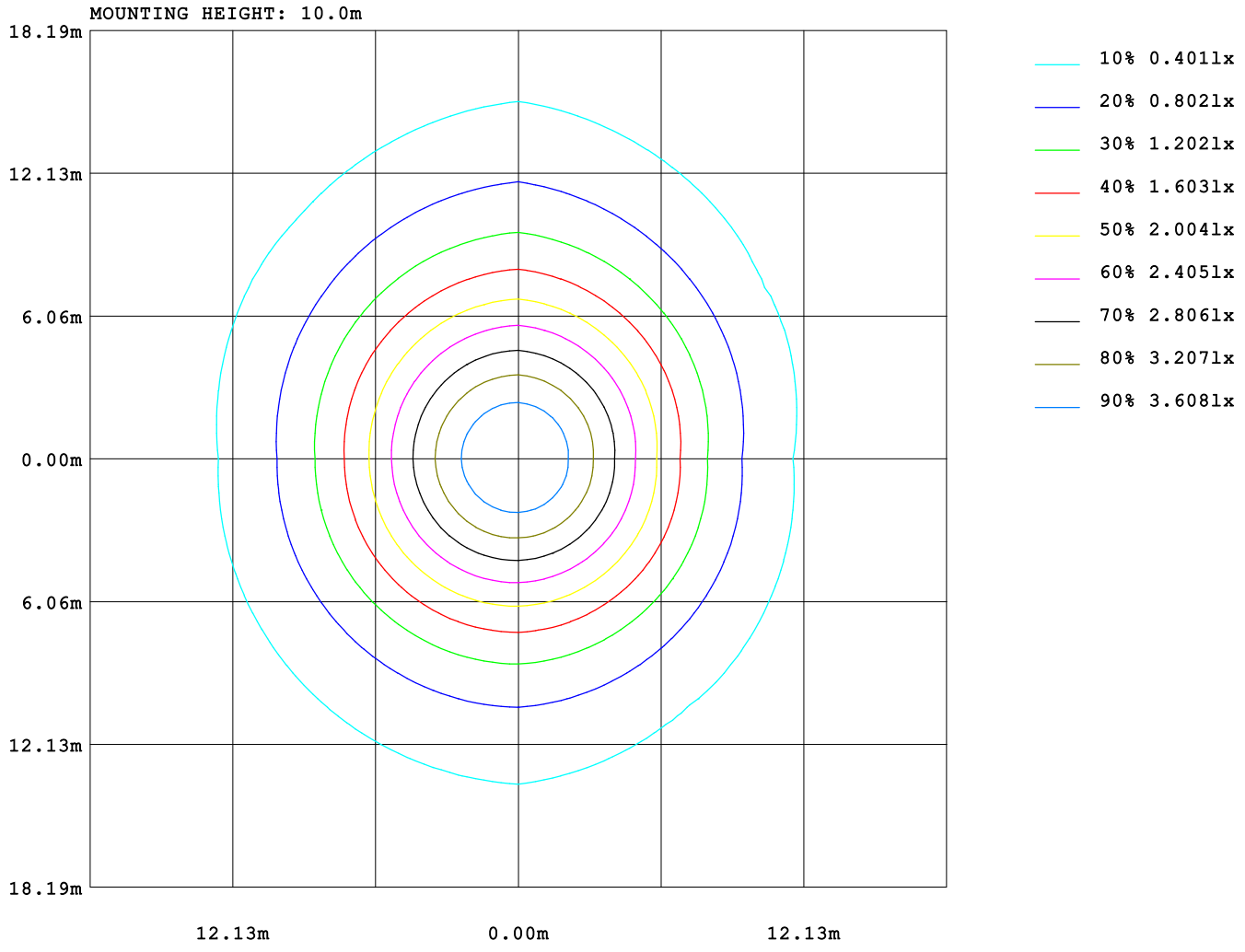
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

AREA LUMINOUS FLUX

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	90	Φ t	Φ a
90	0.02	0.07	0.12	0.18	0.25	0.33	0.41	0.48	0.54	0.55	0.51	0.45	0.38	0.30	0.23	0.16	0.10	0.03	5.10	0.00
80	0.02	0.07	0.14	0.24	0.38	0.56	0.78	1.02	1.23	1.24	1.05	0.83	0.61	0.44	0.30	0.19	0.10	0.03	9.24	2.32
70	0.02	0.07	0.16	0.31	0.62	1.16	2.00	2.92	3.66	3.65	2.91	2.02	1.22	0.68	0.38	0.21	0.11	0.03	22.1	19.1
60	0.02	0.08	0.18	0.46	1.24	2.76	4.57	6.17	7.27	7.16	5.88	4.21	2.51	1.24	0.53	0.24	0.11	0.03	44.7	42.9
50	0.02	0.08	0.21	0.76	2.43	4.80	6.93	8.43	9.34	9.23	8.09	6.37	4.15	1.98	0.76	0.27	0.11	0.03	64.0	62.7
40	0.02	0.07	0.24	1.26	3.69	6.27	8.28	9.69	10.4	10.3	9.38	7.76	5.56	2.93	0.97	0.30	0.11	0.03	77.4	76.4
30	0.02	0.07	0.28	1.78	4.60	7.15	9.18	10.5	11.2	11.1	10.2	8.68	6.45	3.72	1.21	0.31	0.11	0.03	86.8	85.9
	0.02	0.06	0.31	2.14	5.08	7.69	9.76	11.1	11.7	11.6	10.8	9.23	6.96	4.18	1.38	0.27	0.11	0.03	92.7	91.9
	0.02	0.06	0.30	2.26	5.22	7.90	10.0	11.4	12.0	11.9	11.1	9.44	7.10	4.27	1.38	0.21	0.10	0.03	94.8	94.2
	0.02	0.06	0.30	2.22	5.15	7.83	9.97	11.3	12.0	11.9	11.0	9.38	7.02	4.20	1.34	0.20	0.10	0.03	94.2	93.6
	0.02	0.07	0.31	2.03	4.86	7.45	9.54	10.9	11.6	11.5	10.6	9.02	6.72	3.96	1.27	0.27	0.11	0.03	90.4	89.6
-30	0.02	0.08	0.28	1.64	4.24	6.69	8.71	10.1	10.7	10.6	9.80	8.21	5.99	3.36	1.07	0.31	0.12	0.03	82.1	81.1
-40	0.02	0.08	0.26	1.15	3.26	5.57	7.44	8.78	9.45	9.35	8.47	6.93	4.85	2.50	0.86	0.32	0.12	0.03	69.5	68.3
-50	0.02	0.09	0.25	0.73	2.14	4.04	5.78	7.00	7.66	7.54	6.66	5.22	3.39	1.69	0.73	0.31	0.12	0.03	53.4	52.0
-60	0.02	0.09	0.22	0.53	1.19	2.42	3.80	4.94	5.66	5.56	4.65	3.45	2.17	1.20	0.60	0.28	0.12	0.03	37.0	35.1
-70	0.02	0.08	0.19	0.40	0.76	1.30	2.01	2.79	3.43	3.41	2.78	2.04	1.36	0.83	0.46	0.24	0.12	0.03	22.2	19.6
-80	0.02	0.08	0.17	0.30	0.48	0.73	1.03	1.34	1.61	1.62	1.36	1.07	0.78	0.54	0.35	0.21	0.11	0.03	11.8	5.81
-90	0.02	0.08	0.15	0.24	0.34	0.45	0.57	0.68	0.78	0.78	0.71	0.61	0.50	0.39	0.29	0.19	0.11	0.03	6.92	0.00
	HORIZONTAL(DEG)																			
Φ t	0.38	1.33	4.06	18.6	45.9	75.1	101	120	131	130	116	94.9	67.7	38.4	14.1	4.48	1.99	0.60	1035	
Φ a	0.00	0.00	0.61	15.2	43.2	72.7	98.5	118	129	127	114	92.6	65.3	35.6	9.63	0.00	0.00	0.00		929

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

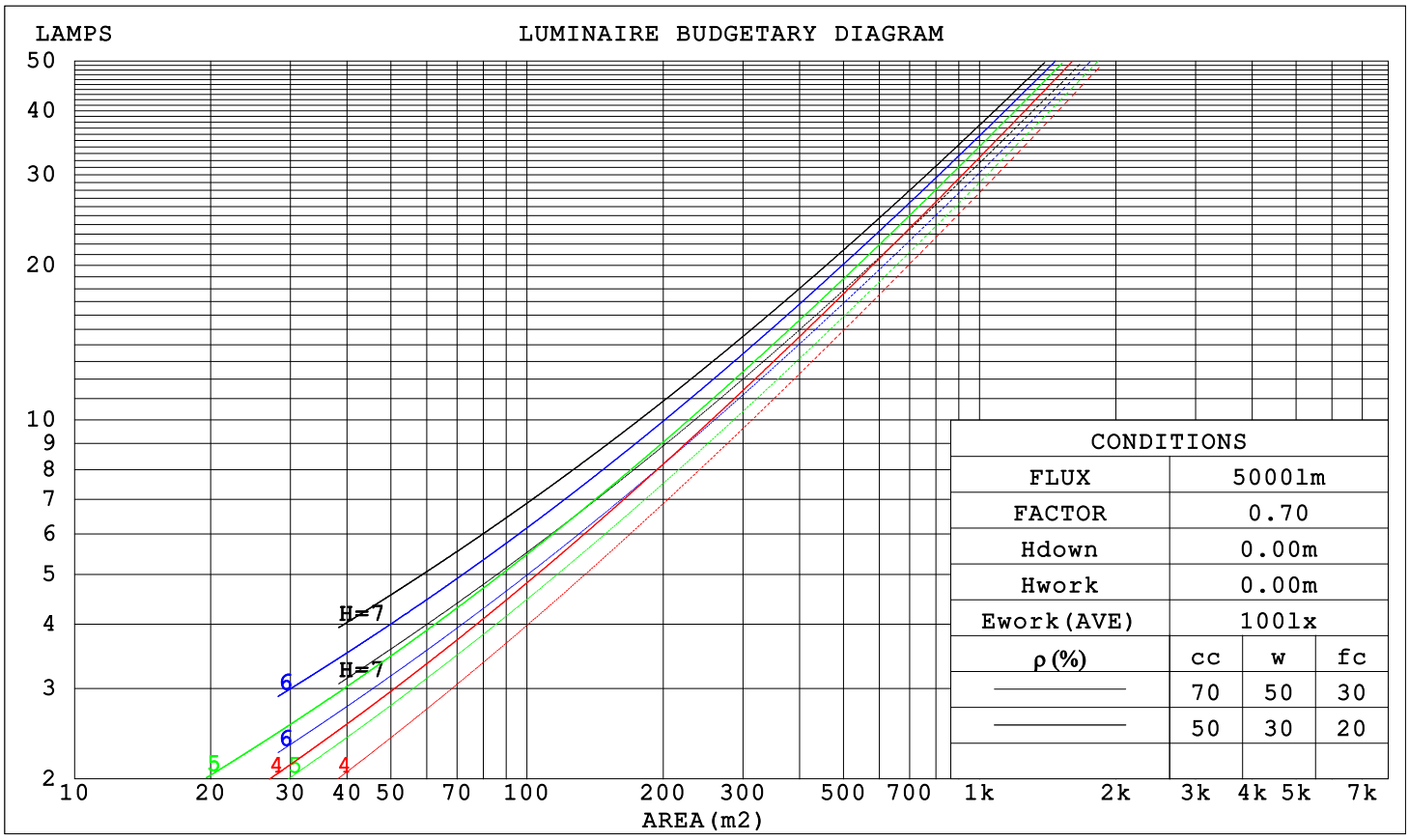
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.04	.00	.96	1.01	.97	.94	.95	.93	.90	.90	.88	.86	.86	.84	.82	.80
2.0	.92	.86	.80	.89	.84	.79	.85	.80	.76	.80	.77	.73	.77	.73	.71	.68
3.0	.81	.74	.68	.79	.72	.67	.75	.70	.65	.72	.67	.63	.69	.64	.61	.59
4.0	.73	.65	.58	.71	.63	.58	.68	.61	.56	.65	.59	.55	.62	.57	.53	.51
5.0	.65	.57	.51	.64	.56	.50	.61	.54	.49	.58	.52	.48	.56	.51	.47	.44
6.0	.59	.50	.44	.58	.50	.44	.55	.48	.43	.53	.47	.42	.51	.45	.41	.39
7.0	.54	.45	.39	.52	.45	.39	.50	.43	.38	.48	.42	.38	.46	.41	.37	.35
8.0	.49	.41	.35	.48	.40	.35	.46	.39	.34	.44	.38	.34	.43	.37	.33	.31
9.0	.45	.37	.32	.44	.37	.31	.42	.36	.31	.41	.35	.30	.39	.34	.30	.28
10.0	.41	.34	.29	.41	.33	.29	.39	.33	.28	.38	.32	.28	.37	.31	.27	.26



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

WEC AND CCEC

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.279	.159	.050	.270	.154	.049	.253	.145	.046	.237	.137	.044	.222	.129	.042	
2.0	.263	.144	.044	.255	.140	.043	.240	.133	.041	.226	.127	.040	.213	.121	.038	
3.0	.246	.131	.039	.239	.128	.038	.225	.122	.037	.213	.117	.036	.201	.111	.034	
4.0	.229	.119	.035	.223	.117	.035	.211	.112	.033	.200	.107	.032	.189	.103	.031	
5.0	.214	.109	.032	.208	.107	.031	.198	.103	.030	.187	.099	.029	.178	.095	.029	
6.0	.200	.100	.029	.195	.099	.028	.185	.095	.028	.176	.091	.027	.167	.088	.026	
7.0	.188	.093	.026	.183	.091	.026	.174	.088	.025	.166	.085	.025	.158	.082	.024	
8.0	.176	.086	.024	.172	.085	.024	.164	.082	.023	.156	.079	.023	.149	.077	.022	
9.0	.166	.080	.022	.162	.079	.022	.155	.076	.022	.148	.074	.021	.141	.072	.021	
10.0	.157	.075	.021	.153	.074	.021	.146	.072	.020	.140	.069	.020	.134	.067	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.243	.243	.243	.208	.208	.208	.142	.142	.142	.082	.082	.082	.026	.026	.026	
1.0	.232	.210	.190	.198	.180	.164	.136	.124	.113	.078	.072	.066	.025	.023	.021	
2.0	.222	.186	.155	.190	.160	.134	.130	.111	.094	.075	.064	.055	.024	.021	.018	
3.0	.214	.168	.132	.183	.145	.114	.126	.101	.080	.073	.059	.047	.023	.019	.015	
4.0	.206	.155	.116	.177	.134	.100	.122	.093	.071	.070	.055	.042	.023	.018	.014	
5.0	.199	.144	.104	.171	.125	.091	.118	.087	.064	.068	.051	.038	.022	.017	.013	
6.0	.192	.136	.096	.165	.118	.083	.114	.083	.059	.066	.049	.035	.021	.016	.012	
7.0	.186	.129	.090	.160	.112	.078	.111	.079	.055	.064	.046	.033	.021	.015	.011	
8.0	.180	.124	.085	.155	.107	.074	.107	.075	.052	.062	.044	.031	.020	.015	.010	
9.0	.174	.119	.081	.150	.103	.071	.104	.072	.050	.061	.043	.030	.020	.014	.010	
10.0	.169	.115	.078	.146	.099	.068	.101	.070	.049	.059	.041	.029	.019	.014	.010	

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

UGR Table

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.0	22.3	21.3	22.6	22.9	24.2	25.5	24.5	25.8	26.2
3H	21.0	22.2	21.4	22.6	23.0	25.3	26.5	25.7	26.9	27.2
4H	21.1	22.2	21.5	22.6	23.0	25.7	26.9	26.1	27.3	27.6
6H	21.2	22.3	21.6	22.7	23.1	26.1	27.2	26.5	27.6	28.0
8H	21.3	22.4	21.8	22.8	23.2	26.3	27.3	26.7	27.7	28.1
12H	21.5	22.5	22.0	22.9	23.4	26.5	27.5	27.0	27.9	28.4
4H 2H	21.5	22.7	21.9	23.0	23.4	24.2	25.4	24.6	25.7	26.1
3H	21.8	22.8	22.3	23.2	23.7	25.5	26.5	26.0	26.9	27.4
4H	22.0	22.9	22.5	23.3	23.8	26.1	27.0	26.5	27.4	27.9
6H	22.3	23.1	22.8	23.5	24.0	26.6	27.4	27.1	27.8	28.4
8H	22.5	23.2	23.0	23.7	24.2	26.9	27.6	27.4	28.1	28.6
12H	22.8	23.4	23.3	23.9	24.5	27.2	27.9	27.8	28.4	29.0
8H 4H	22.4	23.1	22.9	23.6	24.1	26.1	26.8	26.6	27.3	27.8
6H	22.9	23.5	23.4	24.0	24.6	26.7	27.3	27.3	27.9	28.4
8H	23.2	23.8	23.8	24.3	24.9	27.2	27.7	27.7	28.2	28.8
12H	23.7	24.2	24.3	24.7	25.4	27.7	28.1	28.3	28.7	29.3
12H 4H	22.5	23.1	23.0	23.6	24.2	26.0	26.7	26.6	27.2	27.8
6H	23.1	23.6	23.6	24.1	24.7	26.8	27.3	27.3	27.8	28.4
8H	23.5	24.0	24.1	24.5	25.2	27.2	27.7	27.8	28.2	28.9

Variations with the observer position at spacings:		
S = 1.0H	+ 0.7 / - 0.9	+ 0.2 / - 0.2
1.5H	+ 0.3 / - 0.5	+ 0.2 / - 0.3
2.0H	+ 1.4 / - 2.0	+ 0.6 / - 0.8

CIE Pub.117 Corrected 1035 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.1)

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	59	48	41	58	47	41	56	46	40	34
0.80	69	58	51	68	57	51	65	56	50	43
1.00	77	67	60	76	66	60	73	67	59	52
1.25	84	75	68	83	74	67	79	72	66	59
1.50	89	80	73	87	79	73	84	76	71	63
2.00	95	88	82	93	86	80	89	83	78	70
2.50	99	92	86	96	90	85	92	86	82	73
3.00	102	96	90	99	94	89	94	90	86	76
4.00	106	100	96	103	98	94	97	94	90	80
5.00	108	103	99	105	100	97	99	96	93	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

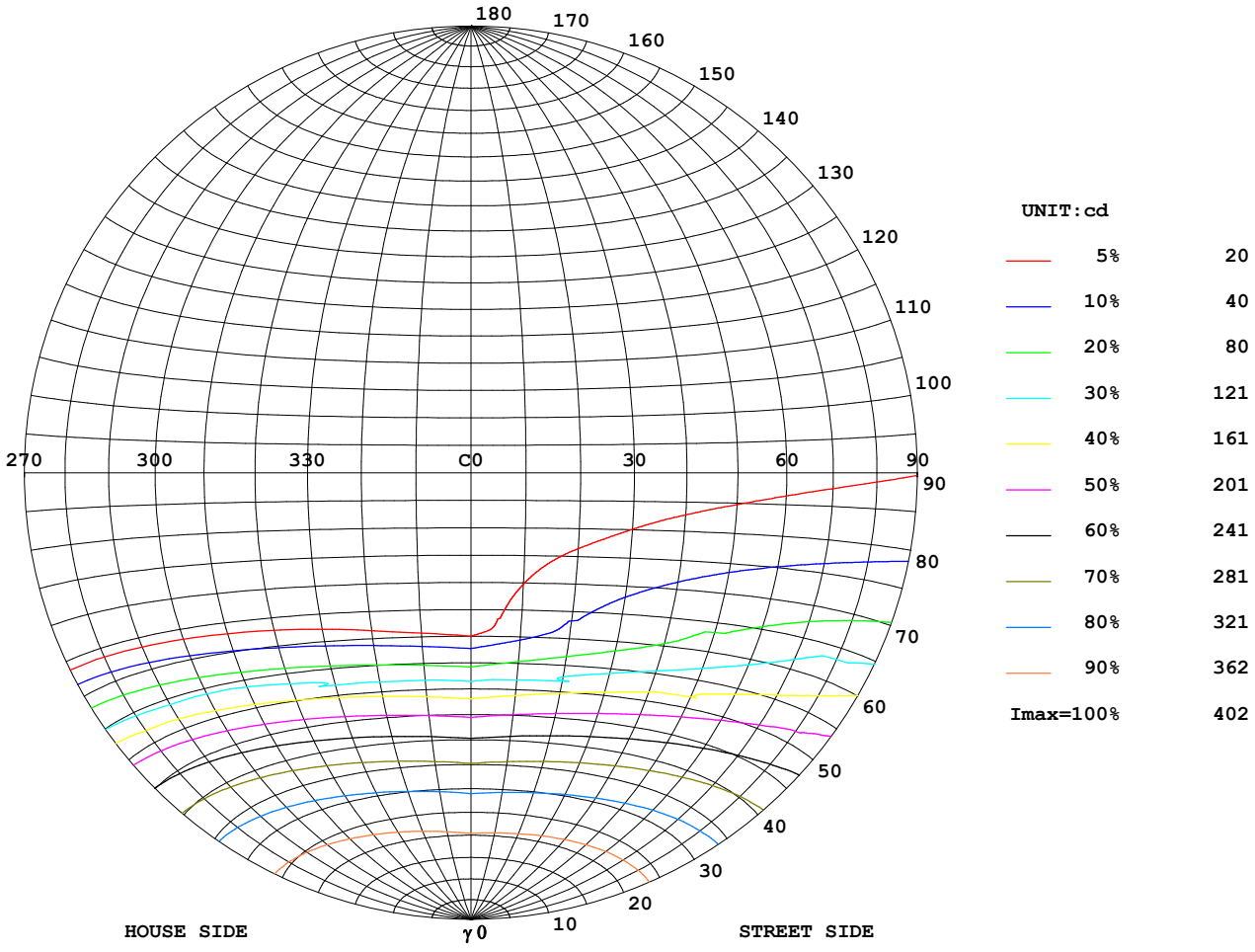
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



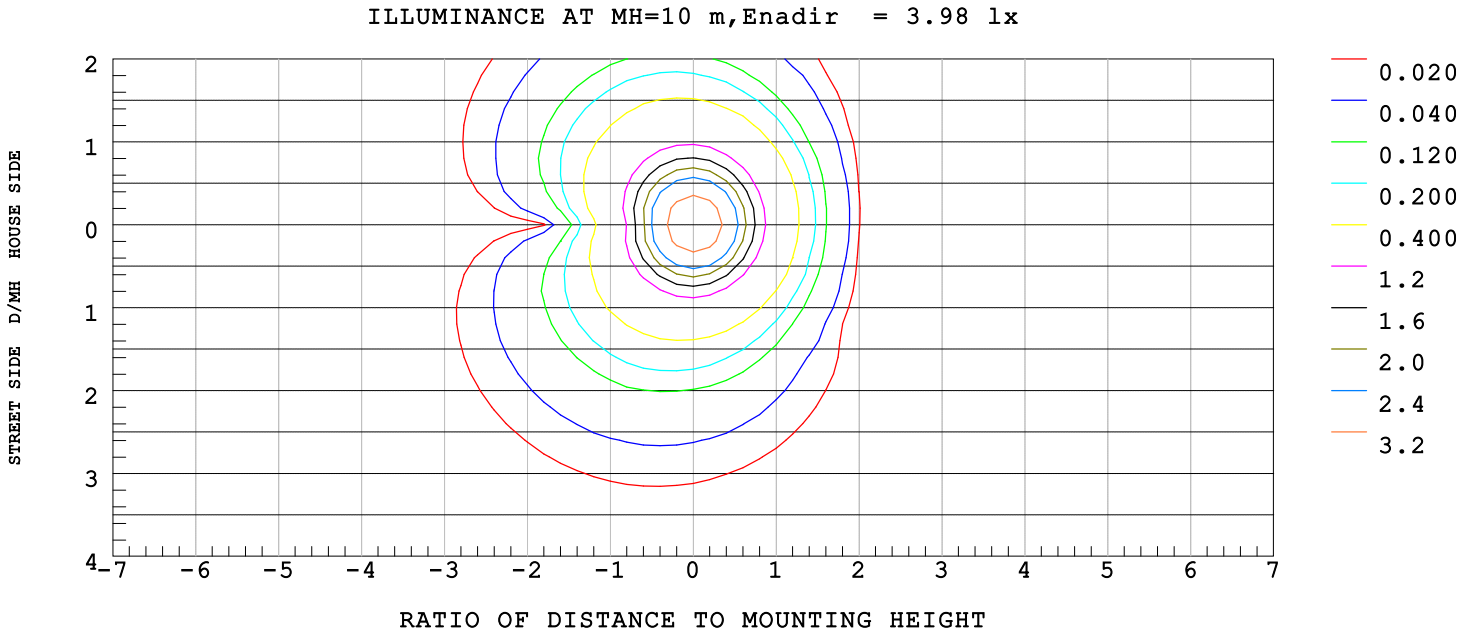
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

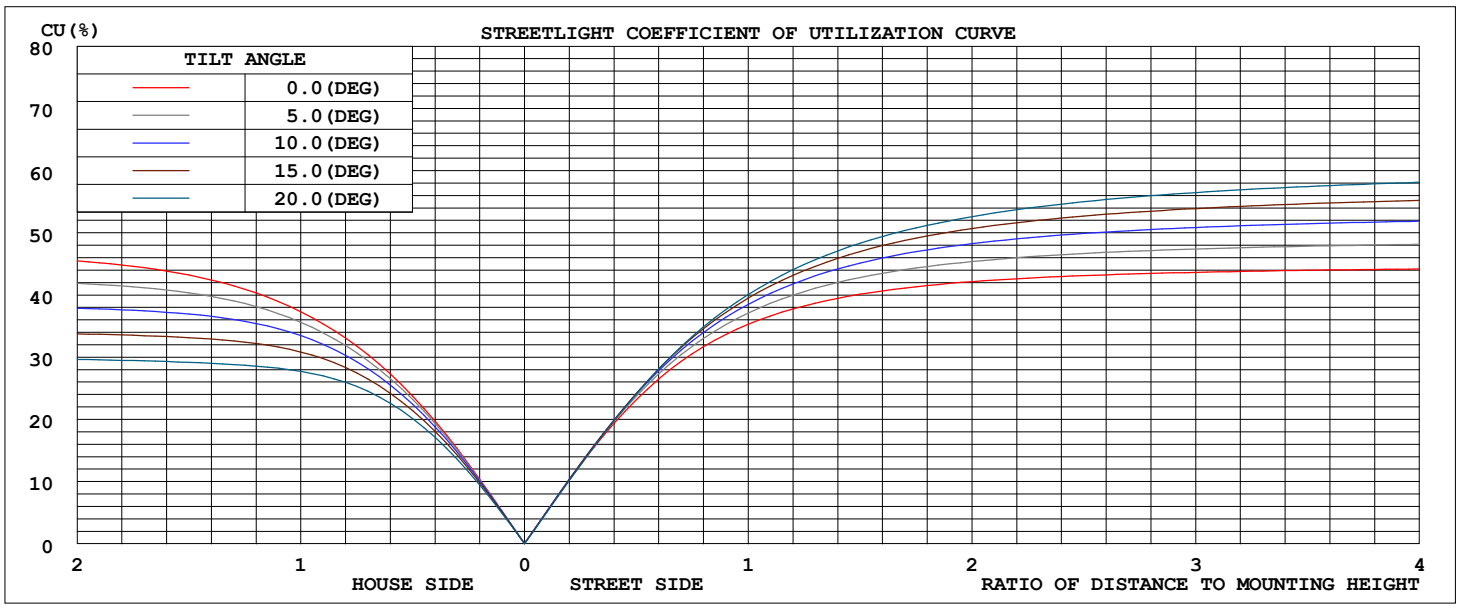
Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

ISOLUX DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:





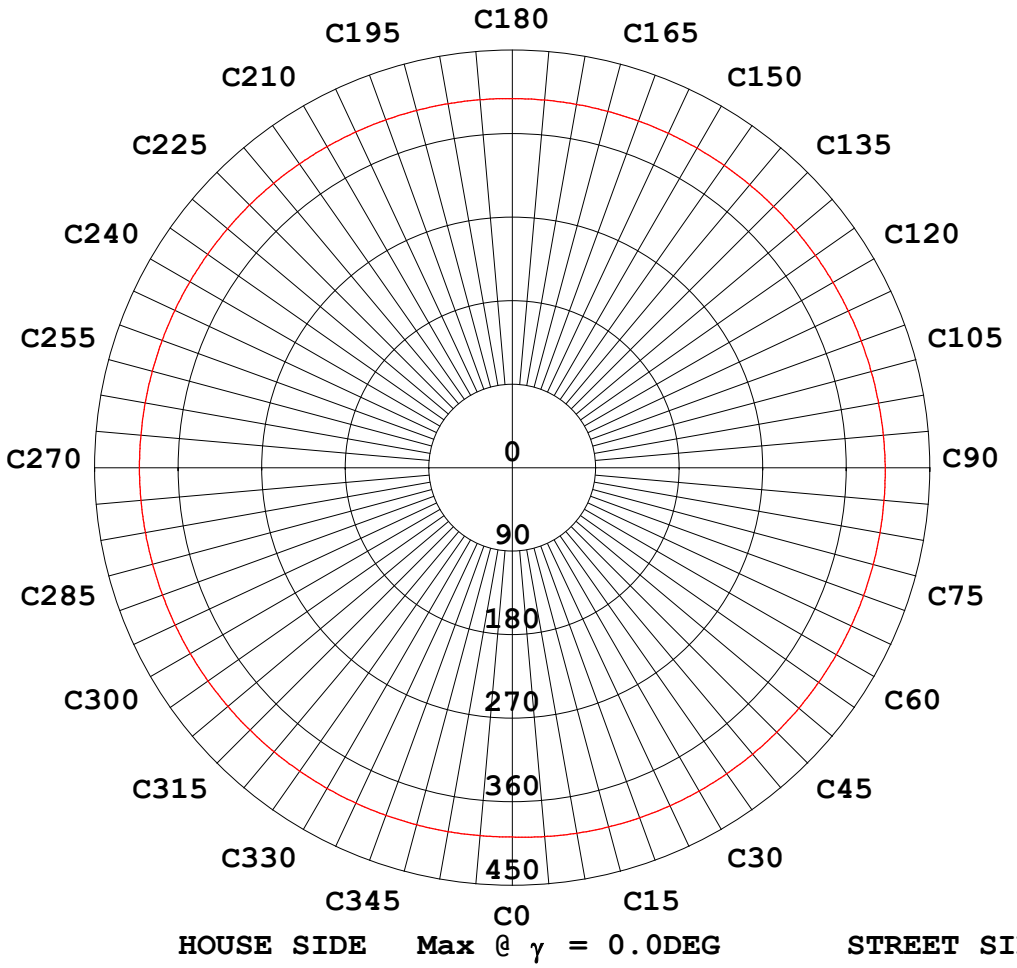
Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:



Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: HAVIT COMMERCIAL			
Address:			
NAME: HCP3925142		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 1000980	DIMENSION:	SERIAL No.:

UNIT: cd

γ (DEG) \ C(DEG)	0	90	180	270
0.0	398	402	398	402
5.0	396	400	398	400
10.0	390	394	397	396
15.0	379	385	392	391
20.0	363	373	382	383
25.0	342	357	366	374
30.0	316	338	345	365
35.0	283	315	318	351
40.0	244	288	284	335
45.0	196	256	243	317
50.0	139	225	192	293
55.0	71.4	194	120	257
60.0	20.7	162	59.8	194
65.0	12.3	118	11.7	132
70.0	12.0	83.5	6.08	71.7
75.0	11.9	55.4	6.41	40.3
80.0	12.0	36.4	6.81	27.1
85.0	12.1	26.2	7.26	20.0
90.0	12.3	19.8	7.83	10.5
95.0	12.4	16.6	8.48	9.77
100.0	12.4	14.8	9.04	9.77
105.0	12.4	13.3	9.53	9.53
110.0	12.3	13.3	9.98	9.33
115.0	12.1	13.0	10.4	9.17
120.0	11.9	12.7	10.8	9.00
125.0	11.8	12.3	11.2	8.88
130.0	11.7	11.8	11.5	8.80
135.0	11.7	11.3	11.7	8.72
140.0	11.6	10.8	11.6	8.64
145.0	11.6	10.3	11.6	8.56
150.0	11.6	9.90	11.6	8.48
155.0	11.5	9.65	11.5	8.43
160.0	11.5	8.39	11.5	8.39
165.0	11.5	8.31	11.5	8.31
170.0	11.4	8.27	11.4	8.27
175.0	11.4	8.23	11.4	8.23
180.0	11.4	8.19	11.4	8.19

Test System:HOPOO HP880
Temperature:25.3DEG
Operators:
Test Date:2023.04.12

Test Set: 6.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.370 m
Remarks: 24V-480D-2700K-14.4W/IP20